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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/494,780	01/31/2000	Stefan Bahrenburg	GR 97 P 8073	3930	
75	90 04/08/2003				
Lerner & Greenberg PA Post Office Box 2480 Hollywood, FL 33022-2480			EXAMI	EXAMINER	
			PEZZLO, JOHN		
			ART UNIT	PAPER NUMBER	
			2662	1/1	
			DATE MAILED: 04/08/2003	114	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. 09/494,780

Applicant(s)

Bahrenburg et al.

Office Action Summary

Examiner

John Pezzlo

Art Unit 2662



	The MAILING DATE of this communication appears of	on the cover she	et with	the correspondence address			
	or Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.							
- If NO p - Failure - Any rep	eriod for reply specified above is less than thirty (30) days, a reply within the eriod for reply is specified above, the maximum statutory period will apply an to reply within the set or extended period for reply will, by statute, cause the ply received by the Office later than three months after the mailing date of th patent term adjustment. See 37 CFR 1.704(b).	nd will expire SIX (6) is application to become	MONTHS f ne ABAND	rom the mailing date of this communication. DNED (35 U.S.C. § 133).			
Status							
1) 💢	Responsive to communication(s) filed on 11 Feb 20	03		· ·			
2a) 💢	This action is FINAL . 2b) \square This action	on is non-final.					
3) 🗆	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.						
Disposit	ion of Claims						
4) 💢	Claim(s) <u>1-15</u>			is/are pending in the application.			
4	a) Of the above, claim(s)			is/are withdrawn from consideration.			
	Claim(s)						
6) 💢	Claim(s) 1-4, 6, 9, and 11-15			is/are rejected.			
7) 💢	Claim(s) 5, 7, 8, and 10			is/are objected to.			
8) 🗌	Claims	are	subject	to restriction and/or election requirement.			
Applica	tion Papers						
9) 🗆	The specification is objected to by the Examiner.						
10)	The drawing(s) filed on is/are	a) 🗌 accepte	d or b)	objected to by the Examiner.			
	Applicant may not request that any objection to the di						
11)	The proposed drawing correction filed on	is:	a) 🗌 :	approved b) \square disapproved by the Examiner.			
	If approved, corrected drawings are required in reply to						
12)	The oath or declaration is objected to by the Examin	ner.					
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) [☐ All b)☐ Some* c)☐ None of:						
	1. \square Certified copies of the priority documents have	e been receive	d.				
	2. Certified copies of the priority documents have	e been receive	d in Ap	plication No			
	3. Copies of the certified copies of the priority do application from the International Burea	au (PCT Rule 1	7.2(a)).				
*S	ee the attached detailed Office action for a list of the						
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).							
a) U The translation of the foreign language provisional application has been received.							
15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachm		4) 🗍 🏣 🚉 🗘		O 412) Proc. No./-)			
_	ntice of References Cited (PTO-892) Stice of Dreftsperson's Patent Drawing Review (PTO-948)			O-413) Paper No(s).			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s). 6) Other:							
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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- I. Claims 1-4, 6, 9, and 11-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Sato (US 5,511,068).
- 1. Regarding claims 1, 9, and 11 Santo discloses a radio system which utilizes a TDMA structure and a CDMA code for each time slot (channel) so that multiple radios can communicate at the same time, refer to Figure 2 and column 5 lines 30 to 42. Santo discloses that multiple time slots (multiple channels) can be assigned to the same radio and each time slot can have a variable data rate, refer to Figure 2 and column 4 lines 44 to 67. Santo discloses that each time slot comprises a training sequence, refer to Figure 7 and column 9 lines 34 to 52.

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2. Regarding claim 2 - Santo discloses that the training sequence can be same for all the data

connections, refer to column 7 lines 43 to 50.

3. Regarding claim 3 and 4 - Santo discloses that data for multiple channels is superimposed

into each slot with equal weighting, refer to Figure 4 and column 5 lines 49 to 67.

4. Regarding claim 6 - Santo discloses that the data rate is variable being more data symbols

for a higher rate and less data symbols for lower data rate in a given slot. Therefore with a fixed

number of training symbols the mean power per symbol between the training and data symbols

will be variable, refer to Figure 2 and column 4 lines 24 to 67 and column 5 lines 1 to 22.

5. Regarding claims 12 and 13 - Santo discloses that the training sequence is a midamble,

refer to Figure 7 and column 9 lines 34 to 54.

6. Regarding claims 14 and 15 - Santo discloses that the code is a direct sequence individual

spreading code, refer to Figure 3 and column 5 lines 4 to 22.

Allowable Subject Matter

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Claims 5, 7, 8, and 10 are objected to as being dependent upon a rejected base claim, but II.

would be allowable if rewritten in independent form including all of the limitations of the base

claim and any intervening claims.

Response to Arguments

Applicant's arguments filed 11 February 2003 have been fully considered but they

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are not persuasive.

1. Applicants argue that the reference, Sato, US 5,511,068, does not anticipate the claims 1-

4, 6, 9, and 11-15. The applicants argue on pages 3 and 4 of the response that Sato does not have

two data channels per connection, separate spreading codes per channel, and utilizing the same

training sequence for each channel which is different from the training sequences from the other

connections. The examiner respectfully disagrees. Sato discloses that the TDMA system utilizes

separate time slots per connection wherein a time slot is a channel therefore two time slots is two

channels per connection, refer to column 5 lines 30 to 42. Sato discloses that each channel (time

slot) utilizes an individual spreading code, refer to Figures 2 and 3 and column 5 lines 4 to 23.

Sato discloses that a unique training sequence is used per connection, same training sequence per

channel, which is different from the training sequences used in the other connections, refer to

Figure 7 and column 9 lines 18 to 52.

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Conclusion

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THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of

time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR

1.136(a) will be calculated from the mailing date of the advisory action. In no event, however,

will the statutory period for reply expire later than SIX MONTHS from the mailing date of this

final action.

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to John Pezzlo whose telephone number is (703) 306-5420. The examiner can

normally be reached on Monday to Friday from 8:30 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Hassan Kizou, can be reached on (703) 305-4744. The fax phone number for the organization

where this application or proceeding is assigned is (703) 872-9314.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C.

or faxed to:

(703) 872-9314

For informal or draft communications, please label "PROPOSED" or "DRAFT"

Hand delivered responses should be brought to:

Receptionist (Sixth floor)

Crystal Park 2

2121 Crystal Drive

Arlington, VA.

John Pezzlo

1 April 2003

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600